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CONCLUSIONS OF THE STUDY PROGRAMME PREPARED FOR BELGIUM BY PROF. M. NICOLET

This paper outlines the observational, experimental and theoretical work on the stratospheric ozone layer carried out in Belgium.

It also reviews the ultraviolet spectrum and the photochemistry of ozone together with current knowledge on the catalytic hydrogen, nitrogen and chlorine systems.

Future activities in Belgium will include regular observations of total ozone, as well as its vertical distribution, by the Institut Royal Meteorologiques. These will be complemented by observations conducted in the stratosphere and on mountain tops by the Institut d'Astrophysique of the University of Liège and by information on minor stratospheric constituents obtained through measurements of solar infra red radiation.

Finally, at the Institute d'Aéronomie spatiale and at the University of Brussels laboratory, experimental studies and stratospheric observations will be undertaken with balloons, rockets and satellites (Spacelab) as well as theoretical studies involving simulation of stratospheric conditions through one and two dimensional mathematical models.

In this last case, the experimental, observational and theoretical aspects will be related so as to exploit new developments in the hydrogen, nitrogen and chlorine chemistry of the ozone layer.

An integrated research programme on all aspects of stratospheric phenomena must be continued in order to increase the accuracy of quantitative predictions of ozone layer variations.